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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,757		02/14/2002	Claude Gauthier	03226.171001;P7189	9460
32615	7590	09/29/2005	EXAMINER		INER
OSHA LIA			JONES, HUGH M		
	1221 MCKINNEY, SUITE 2800 HOUSTON. TX 77010			ART UNIT	PAPER NUMBER
	,			2128	
				DATE MAILED: 09/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1		<u> </u>				
	Application No.	Applicant(s)				
Office Action Summary	10/075,757	GAUTHIER ET AL.				
Onice Action Summary	Examiner	Art Unit				
The MAII INC DATE of this communication as	Hugh Jones	2128				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 F	<u>ebruary 2002</u> .					
2a) This action is FINAL . 2b) This	action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-33 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)		·				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S Patent and Trademark Office.	Paper No(s)/Mail Da					

Art Unit: 2128

DETAILED ACTION

1. Claims 1-33 of U. S. Application 10/075,757, filed 02/14/2002, are presented for examination.

Claim Interpretation

2. The following interpretations were taken in order to examine the claims. The 'simulation' is a simulation carried out on a computer. The 'representative power supply waveform' is the waveform as required by the digital simulation and thus is characterized by amplitude, rise time, fall time and duration. The 'representative power supply waveform' is not an actual measured waveform, because it is unclear how such a waveform could be entered into the digital simulation. It is further interpreted that art teaching simulation of the PLL for use in a chip applies equally well to a chip package as well as a printed circuit board. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and In re Otto, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). Furthermore, Applicant's admissions regarding knowledge of those skilled in the art are noted – see paragraphs 31-36, for example, of the specification.

Art Unit: 2128

Double Patenting

- 3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).
- 4. A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).
- 5. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).
- 6. Claims 1-33 are rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 1-33 of U.S. Patent No. 6,819,192 in view of Heydari et al..
- 7. The patented claims appear to recite the same features but do not appear to recite adjusting an amount of decoupling capacitance. Heydari et al. disclose the effect of decoupling capacitance on PLL jitter. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the patented claimed features with the Heydari et al. teachings because Heydari et al. disclose (col. 1, page 444, top) that on-chip switching noise can be effectively eliminated via use of decoupling capacitors.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2128

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 9. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 10. Claims 1, 4-5, 7, 9-12, 15-16, 18, 20-23, 26-27, 29, 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heydari et al.
- 11. Heydari et al. disclose the effect of decoupling capacitance on PLL jitter and power supply noise (Fig. 2) for a chip and a comparison of simulated with measured data (section VI). See also section V (PLL jitter analysis).
- 12. The section on the simulation doesn't expressly disclose that values of the decoupling capacitance are iterated during the simulation.
- 13. Fig. 2 shows the effects of differing values of the decoupling capacitors on power supply noise.
- 14. It would have been obvious to one of ordinary skill in the art at the time of the invention to iterate the values of the decoupling capacitors during the simulation as disclosed in section VI, because fig. 2 shows the effects of differing values of decoupling capacitance on power supply noise and the abstract discloses that power

Art Unit: 2128

supply noise translates into jitter. Furthermore, col. 1, page 444, top discloses that onchip switching noise can be effectively eliminated via use of decoupling capacitors.

- 15. Claims 2-3, 6, 8, 13-14, 17, 19, 24-25, 28, 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heydari et al. in view of Applicant's Own Admission.
- 16. Heydari et al. disclose the intervening limitations as discussed.
- 17. Heydari et al. do not expressly disclose some of the details as recited in the dependent claims, such as where the power supply waveform is obtained.
- 18. Applicants have admitted (paragraphs 31-36) the knowledge of those skilled in the art, including sources for power supply waveforms, probing for the waveforms, sources for noise, and the dependence of noise on various parameters; that the simulations of the power supply and the PLL can be from different simulators; that the waveform can be obtained from a location adjacent to the intended location of the PLL.
- 19. Any inquiry concerning this communication or earlier communications from the examiner should be:

directed to: Dr. Hugh Jones telephone number (571) 272-3781, Monday-Thursday 0830 to 0700 ET,

or

the examiner's supervisor, Jean Homere, telephone number (571) 272-3780. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist, telephone number (703) 305-3900.

mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

Application/Control Number: 10/075,757

Art Unit: 2128

Page 6

(703) 308-9051 (for formal communications intended for entry)

or (703) 308-1396 (for informal or draft communications, please label PROPOSED or DRAFT).

Dr. Hugh Jones
Primary Patent Examiner
July 23, 2005

